Figure 1

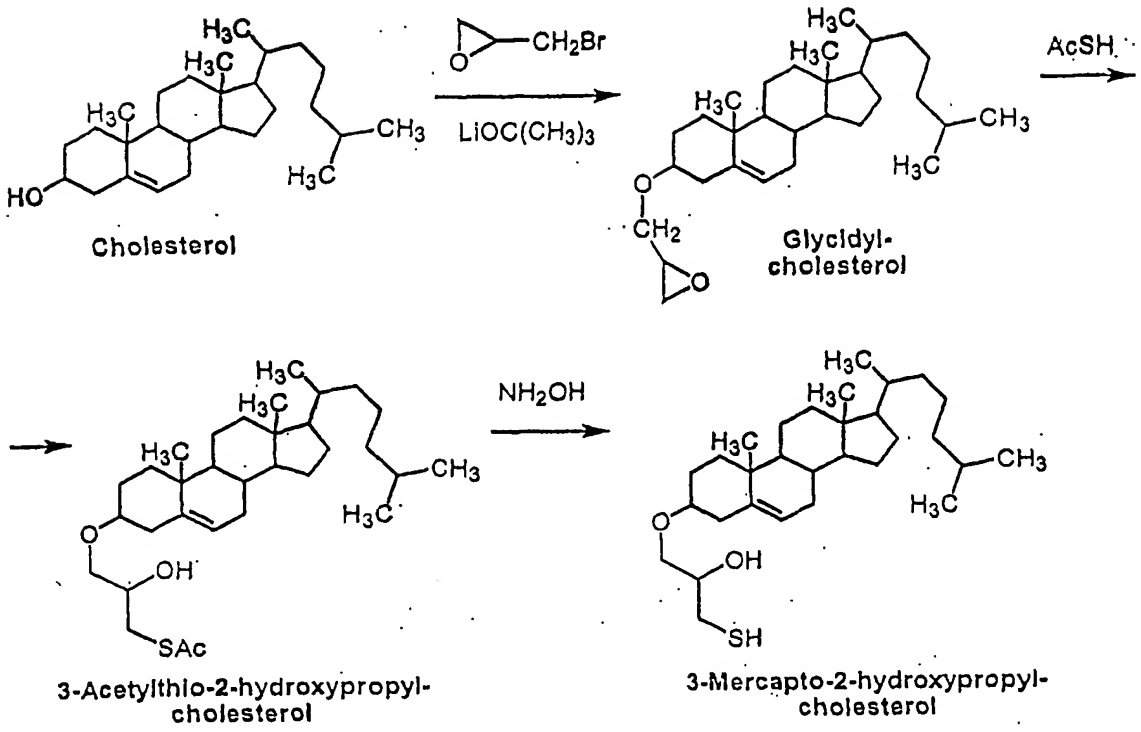

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Figure 2

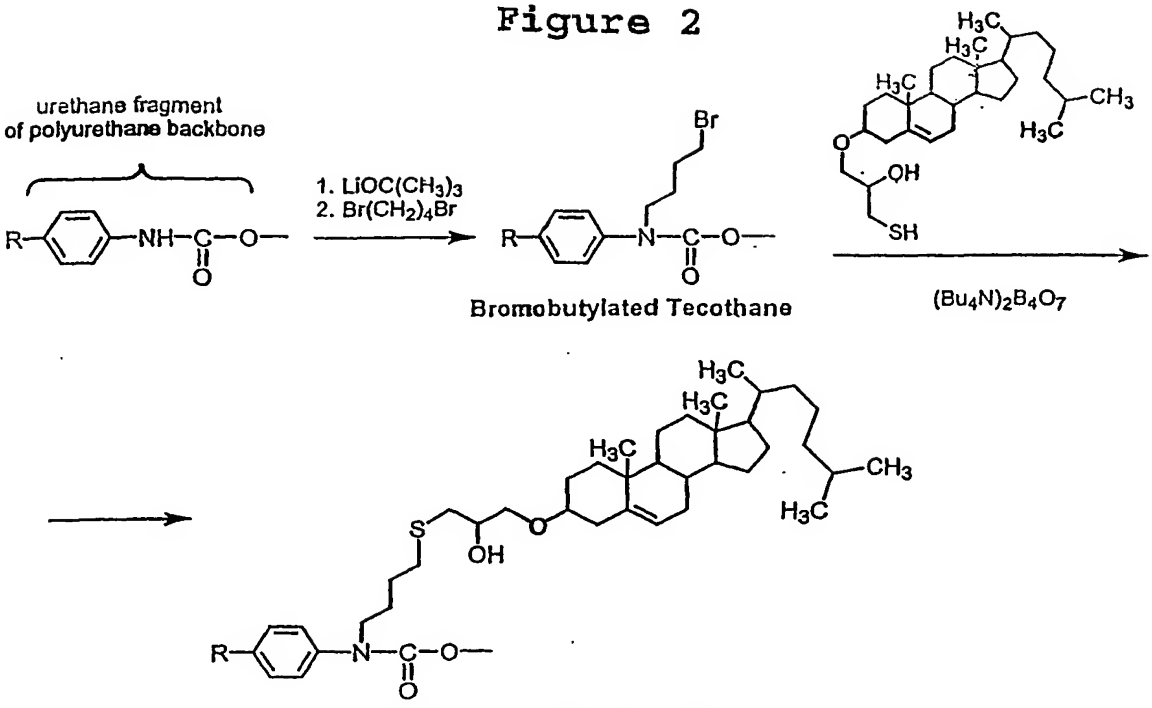

urethane fragment
of polyurethane backbone
1. LiOC(CH3)3
2. Br(CH2)4Br
Br
Bromobutylated Tecothane
(Bu4N)2B4O7
Cholesterol-modified Tecothane
R = polyether-urethane macromolecule

Figure 3

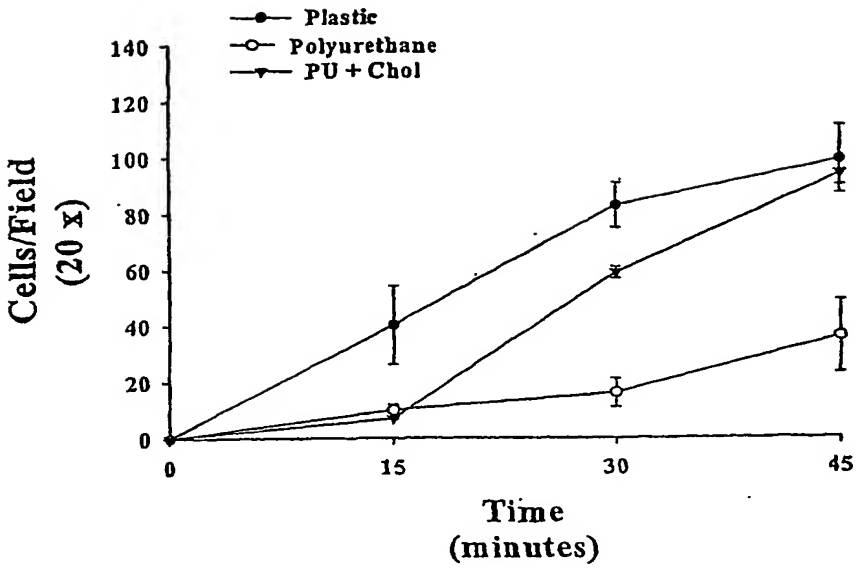

Plastic
Polyurethane
PU + Chol
140
120
100
80
60
40
20
0
Cells/Field
(20 x)
0
15
30
45
Time
(minutes)

Figure 4A

Figure 4B

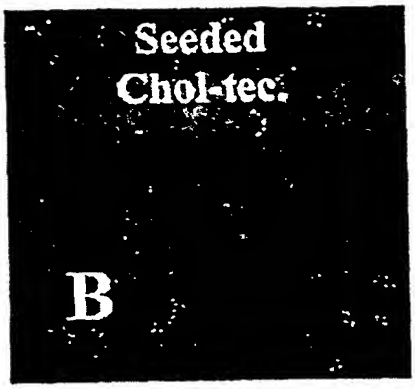


Figure 4C

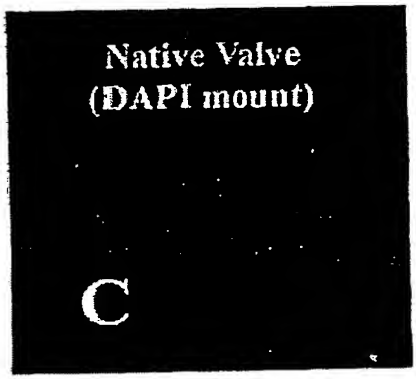


Figure 4D

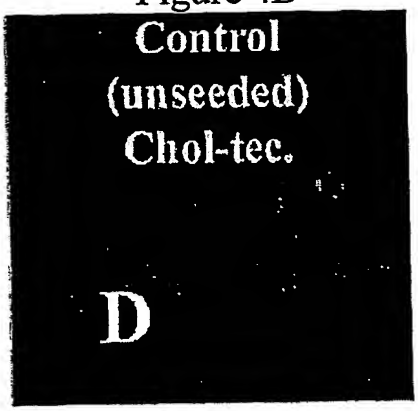


Figure 5A

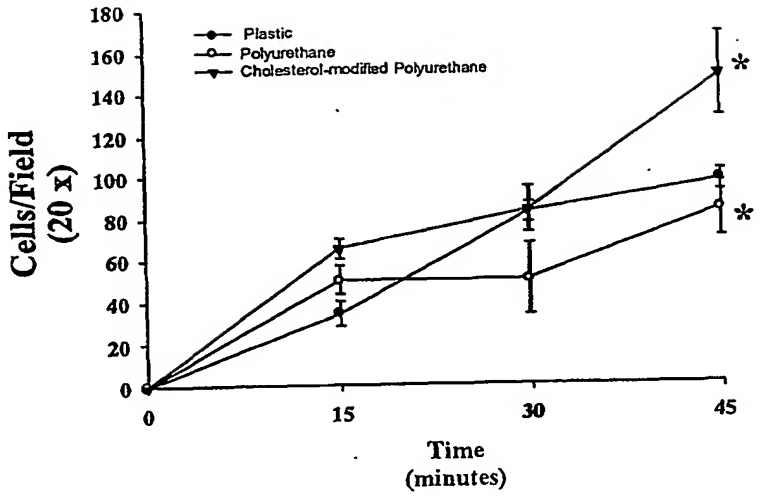


Figure 5B

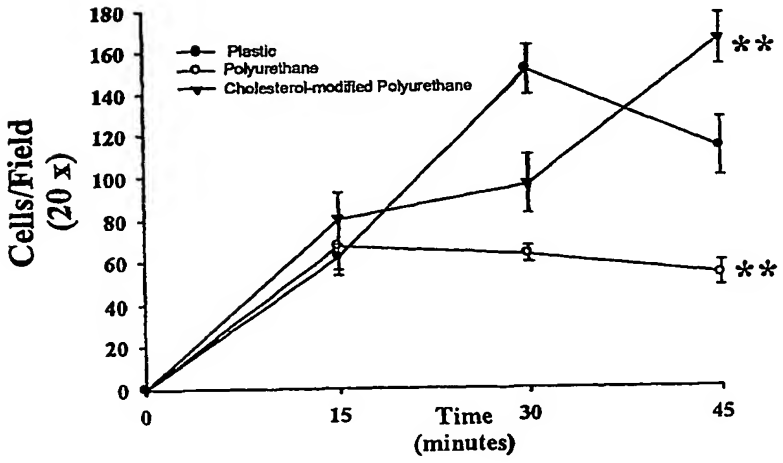


Figure 6

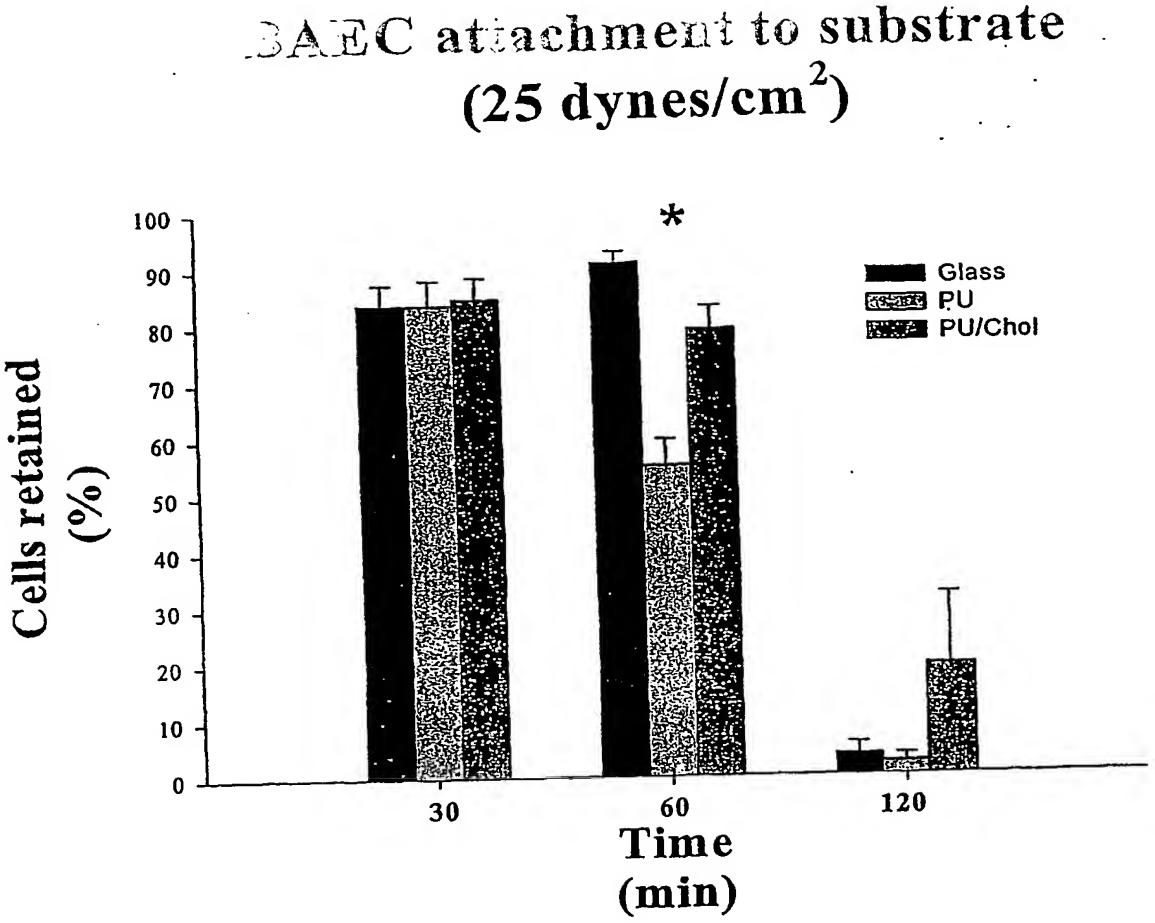
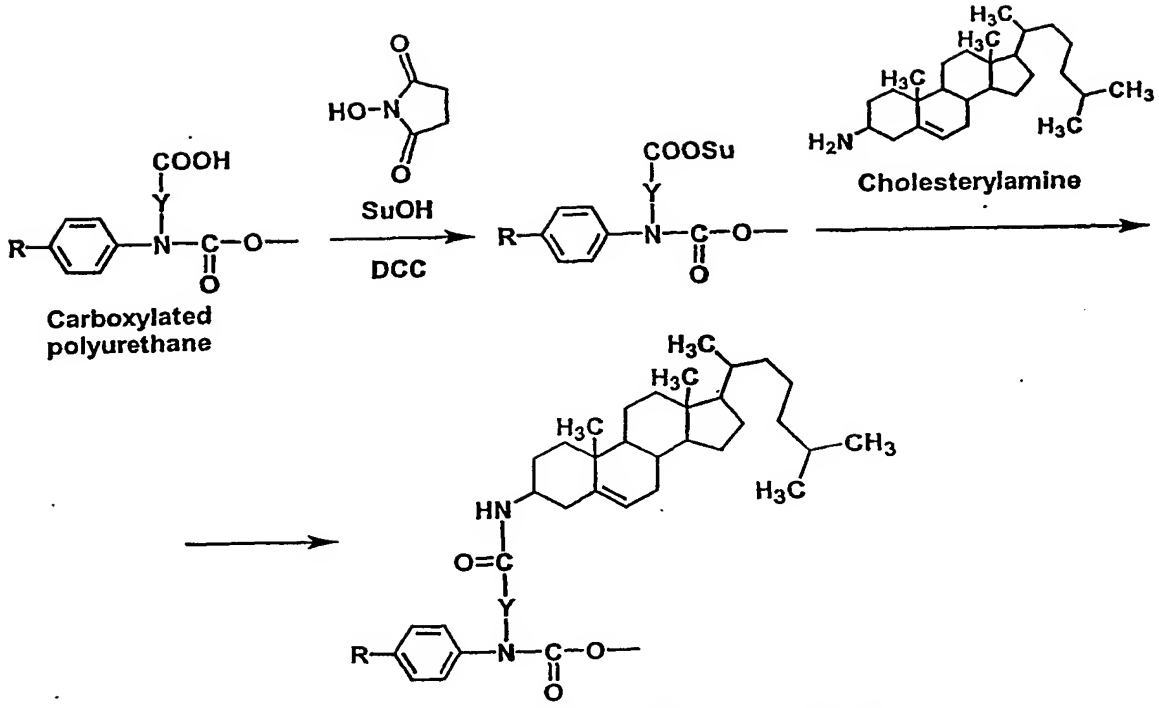
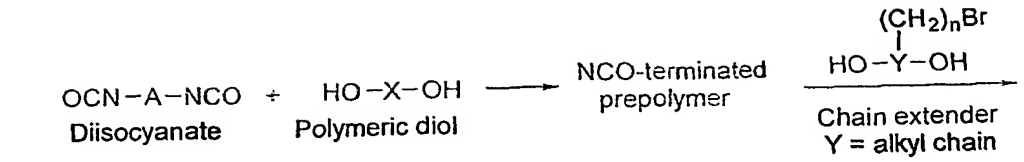

BAEC attachment to substrate
(25 dynes/cm2)
Cells retained
(%)
100
90
80
70
60
50
40
30
20
10
0
*
Glass
PU
PU/Chol
30
60
120
Time
(min)

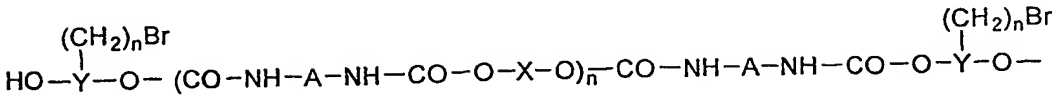
Figure 7



R = polyurethane macromolecule, Su = N-succinimidyl, DCC = dicyclohexylcarbodiimide,

Figure 8





Segmented polyurethane

A = p-$C_6H_4CH_2C_6H_4$-p (polyurethanes based on MDI) or
cyclo-$C_6H_{10}CH_2C_6H_{10}$-cyclo (aliphatic polyurethanes based on HMDI)
X = residue of polytetramethyleneoxide (polyether-urethanes) or
polycarbonatediol (polycarbonate-urethanes)

Figure 9

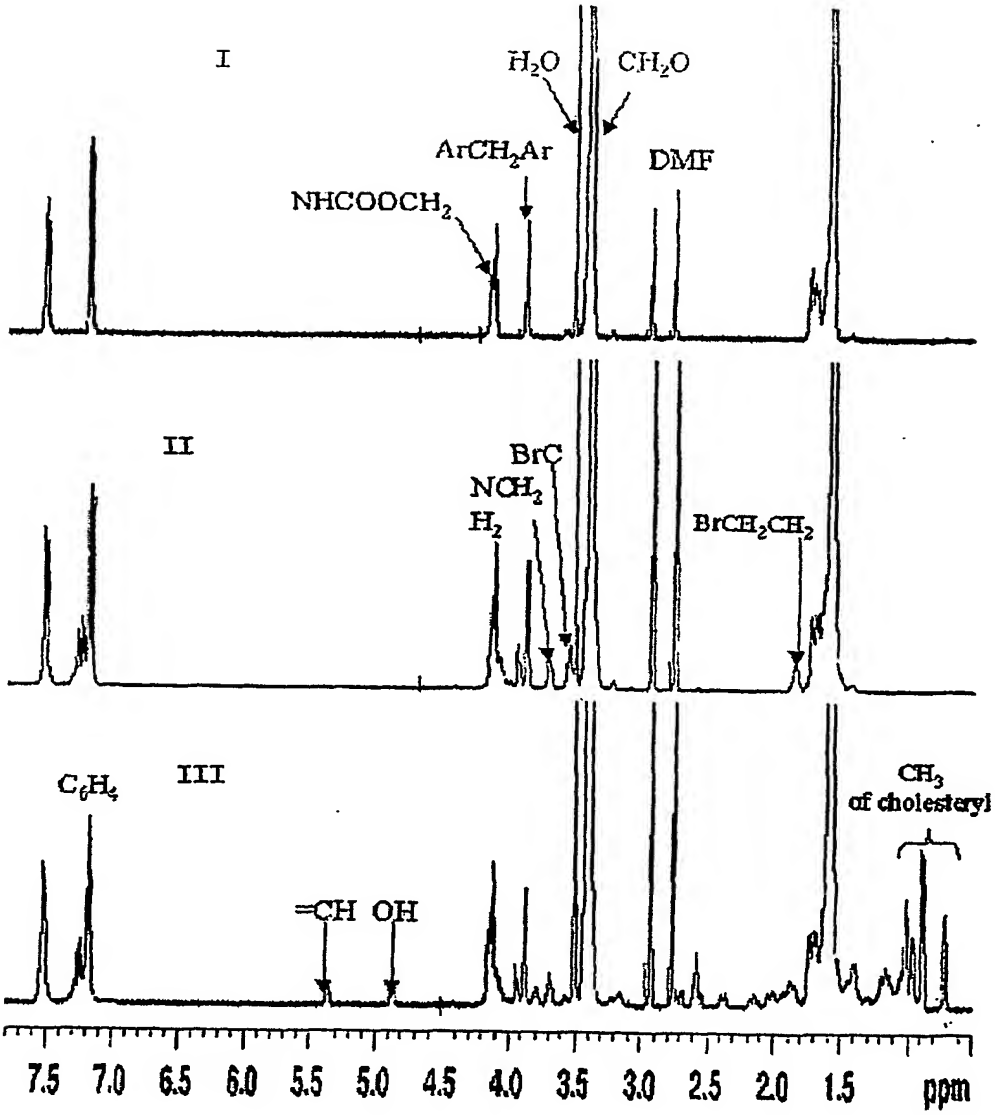
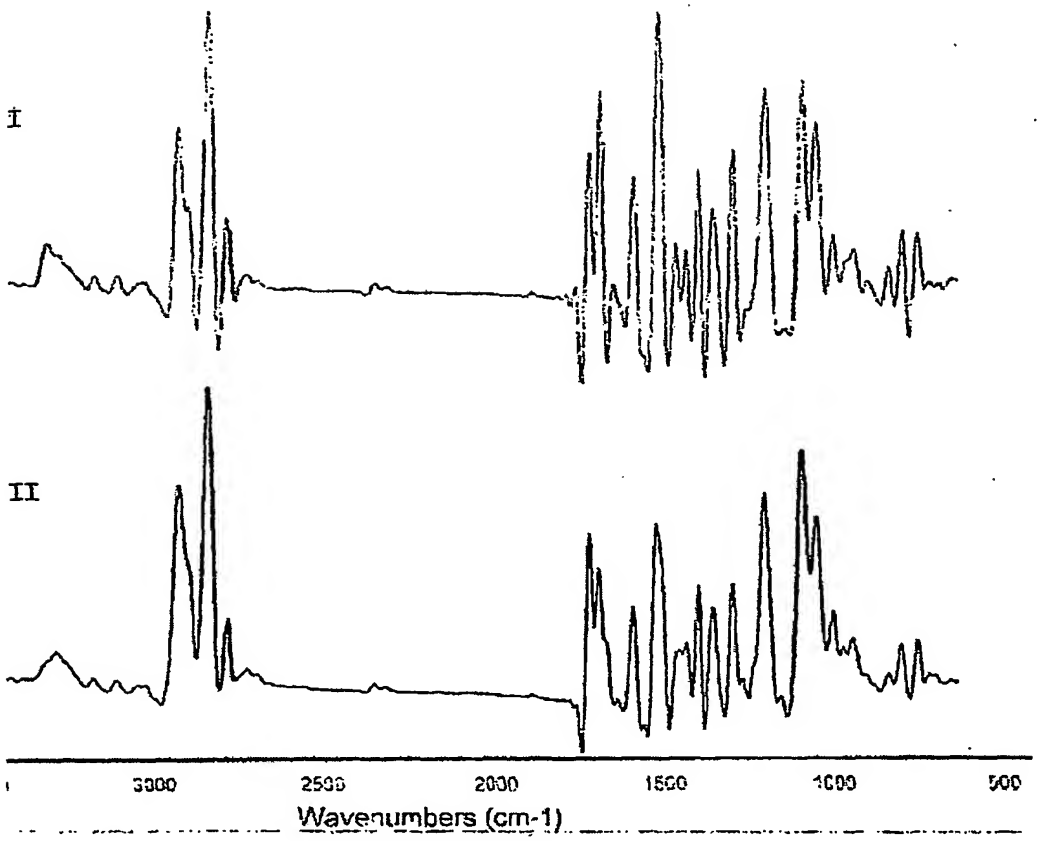

I
H_2O
CH_2O
$ArCH_2Ar$
DMF
$NHCOOCH_2$
II
BrC
NCH_2
H_2
$BrCH_2CH_2$
III
C_6H_5
CH_3
of cholesteryl
=CH OH
7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 ppm

Figure 10



11/19

Figure 11A

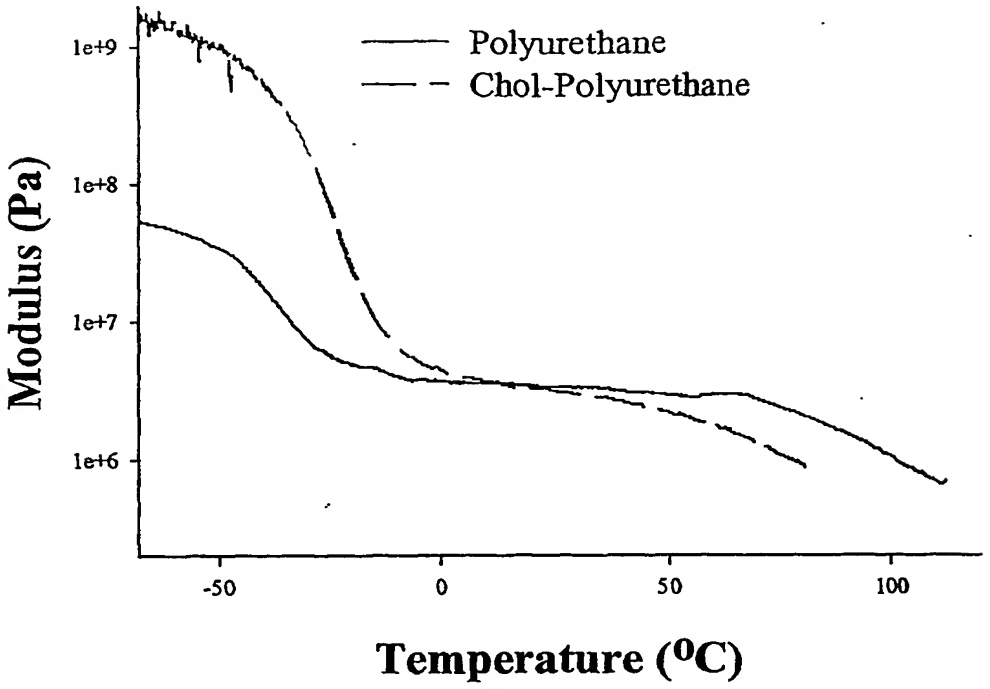


Figure 11B

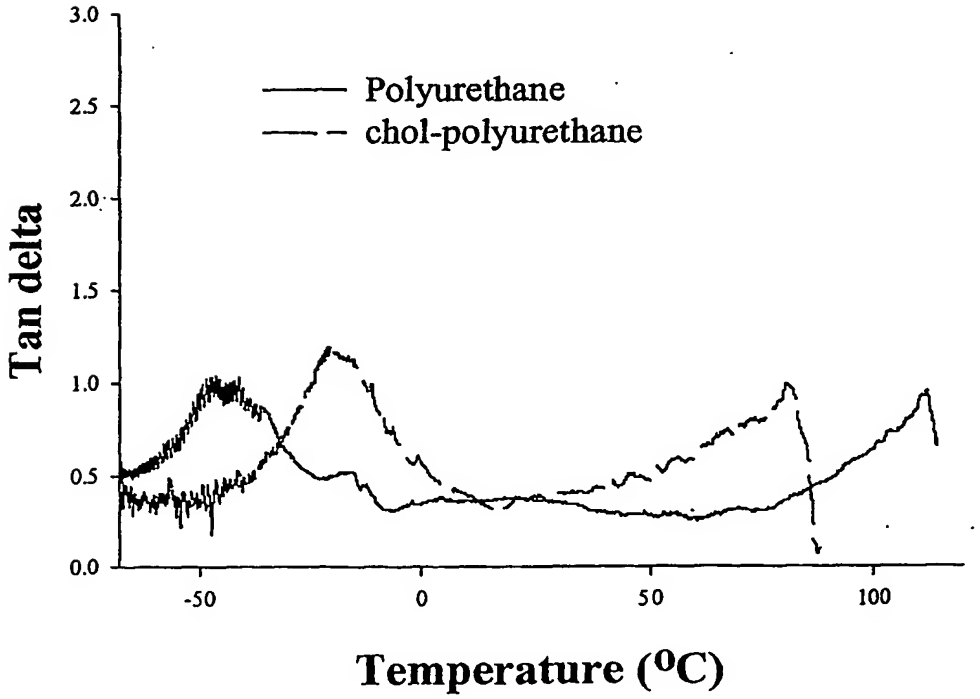


Figure 12A

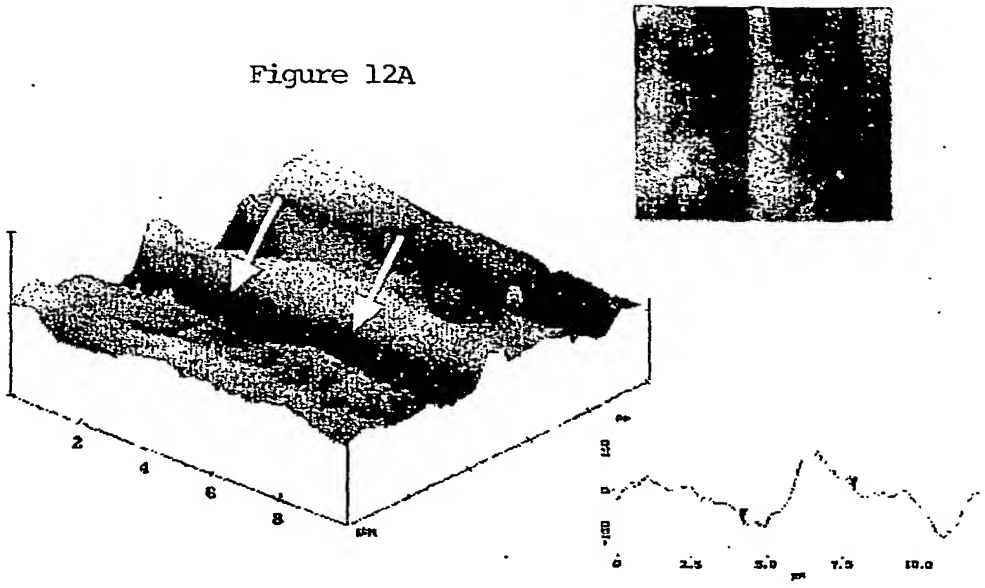
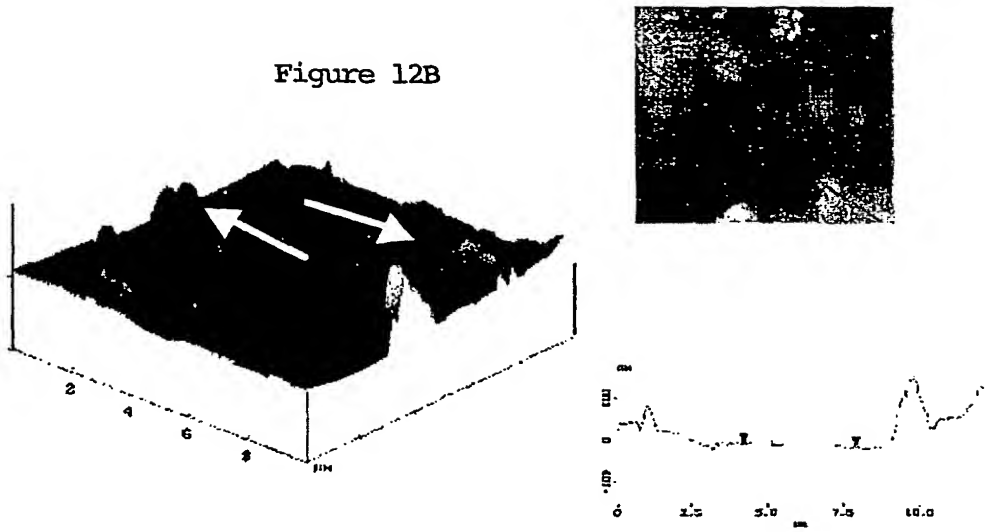
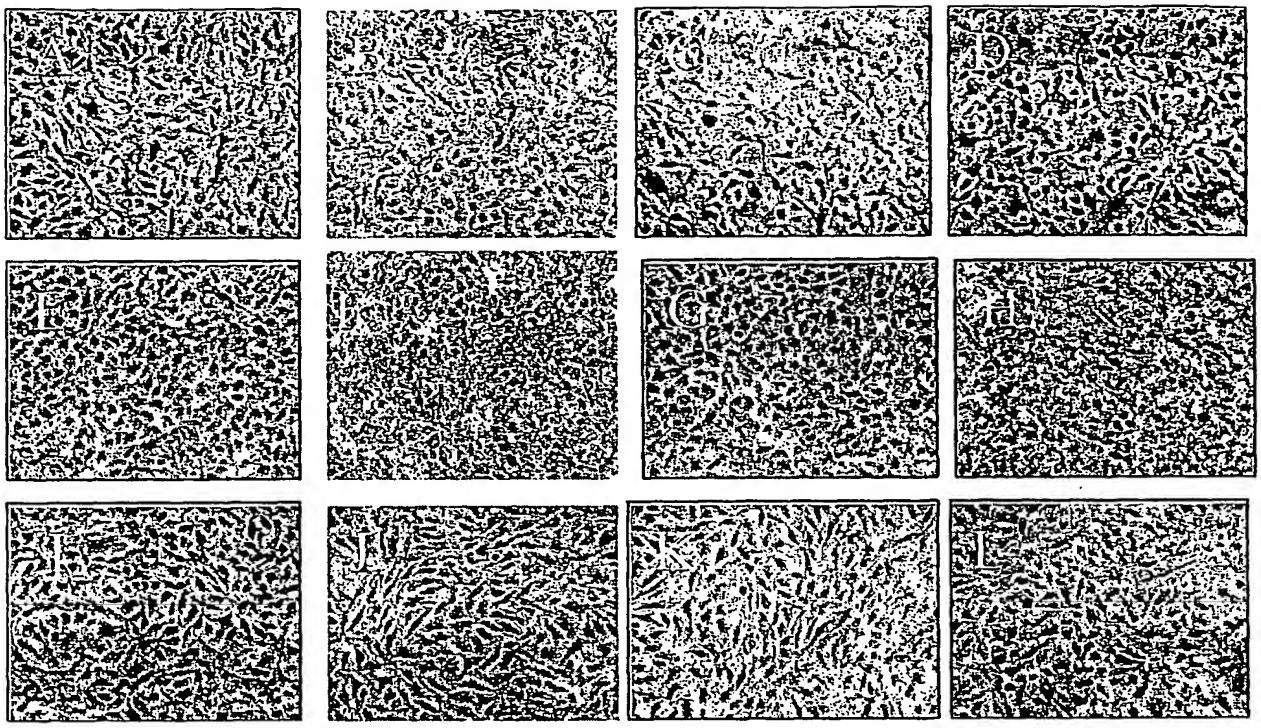


Figure 12B

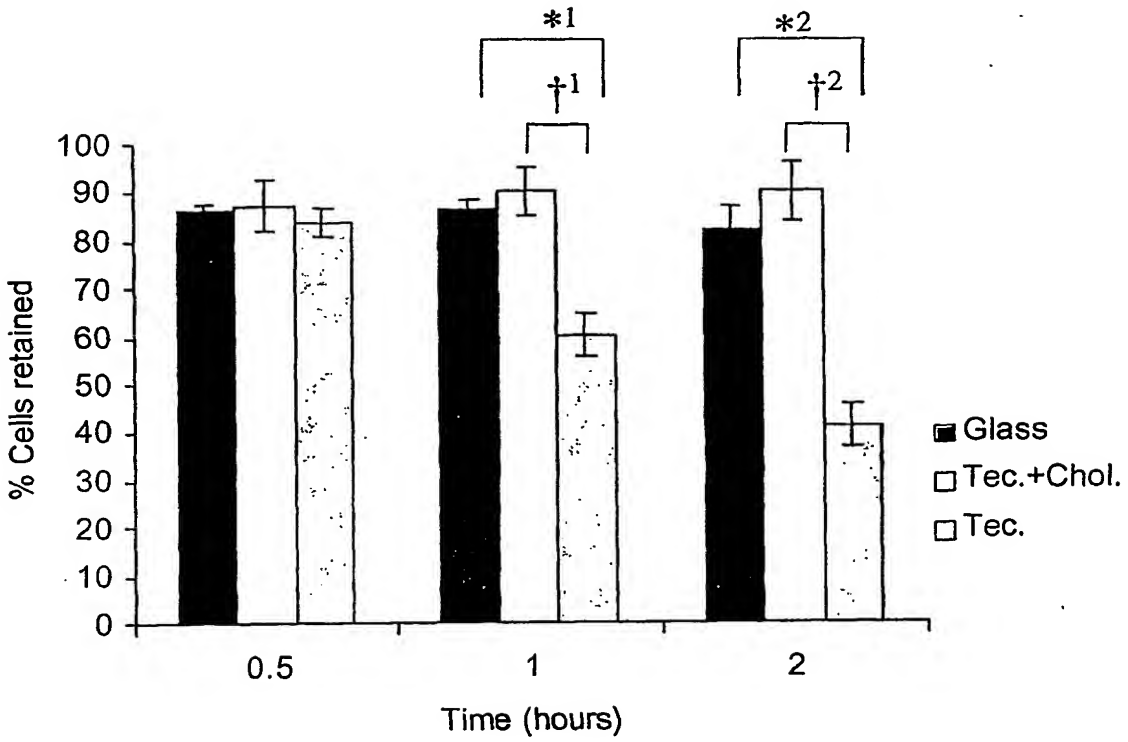


Figures 13A-L



14/19

Figure 13M



15/19

Figures 14A-L

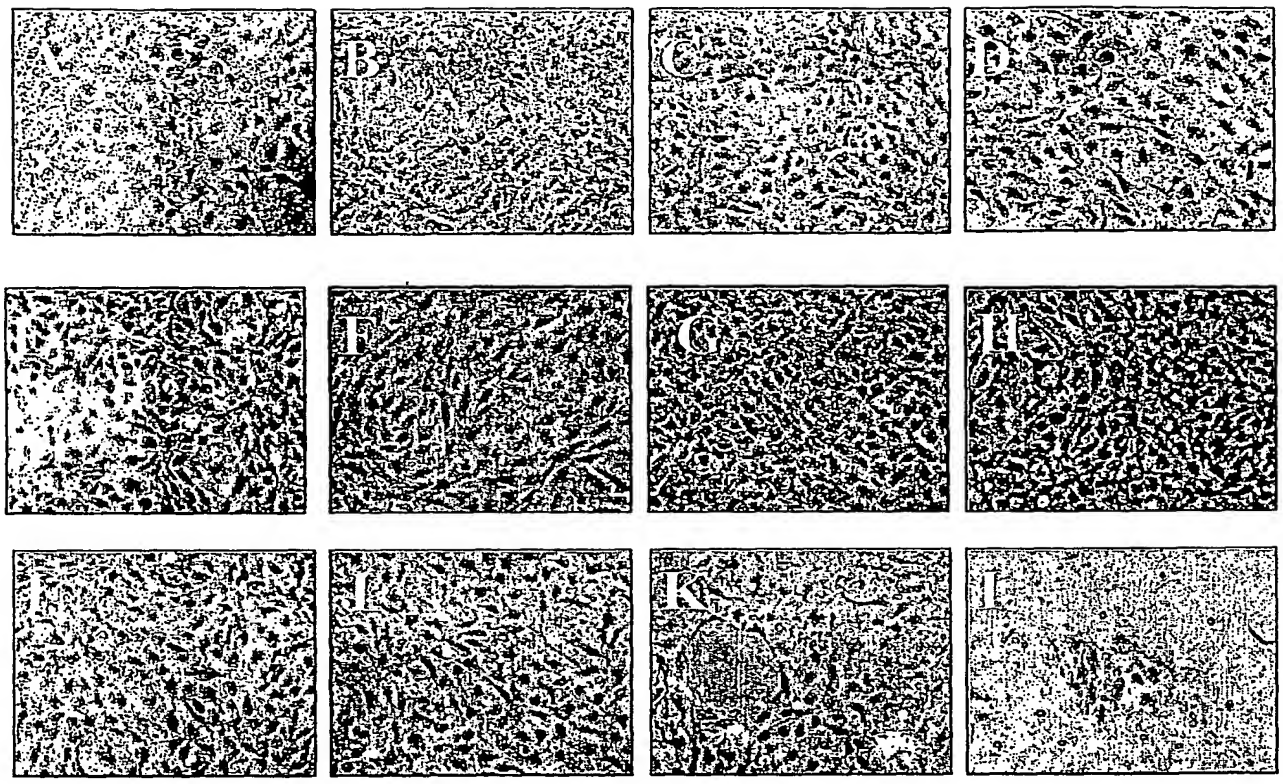


Figure 14M

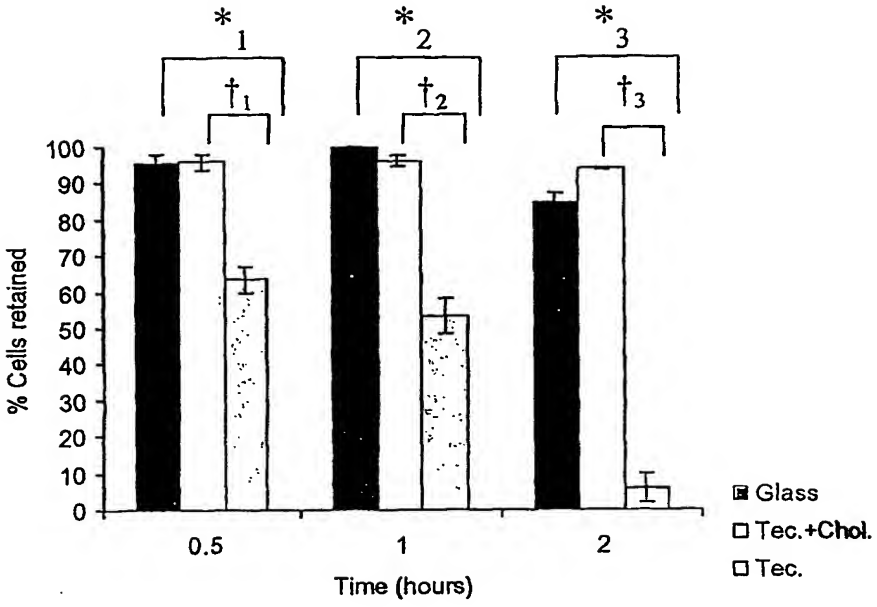

*1
*2
*3
†1
†2
†3
100
90
80
70
60
50
40
30
20
10
0
% Cells retained
0.5
1
2
Time (hours)
Glass
Tec.+Chol.
Tec.

Figure 15

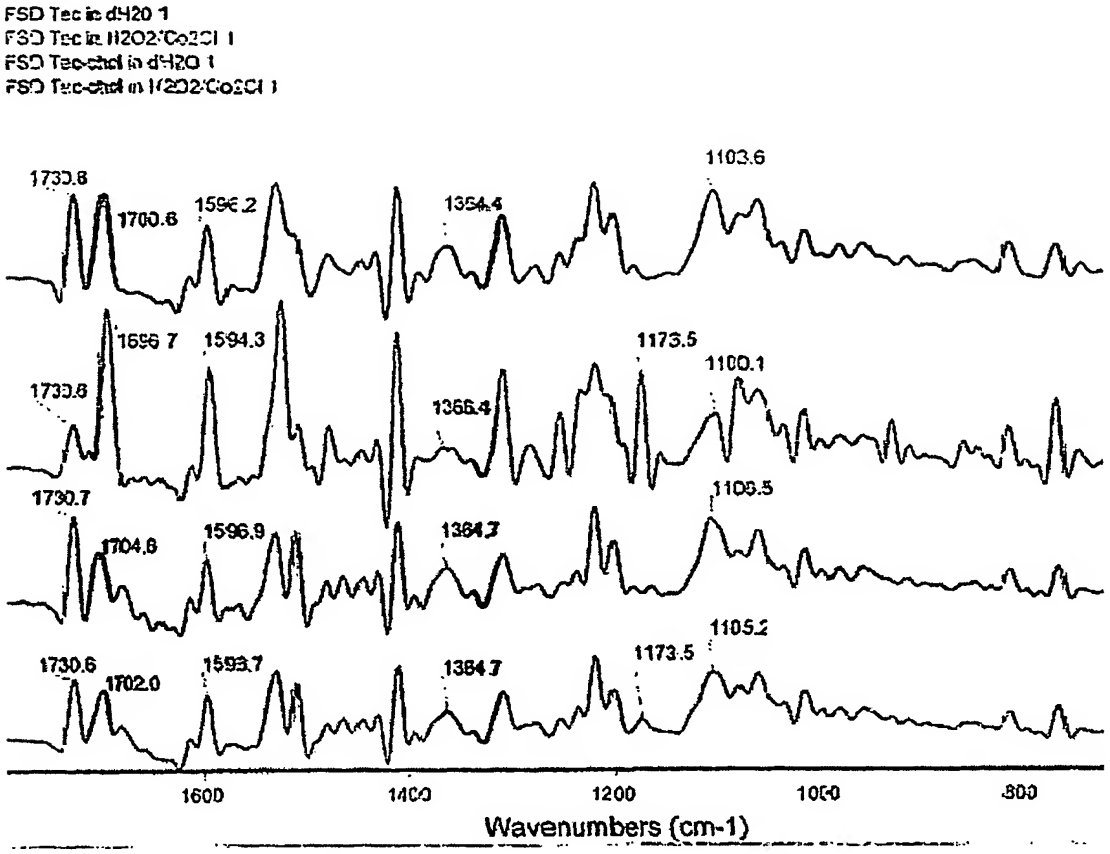


Figure 16

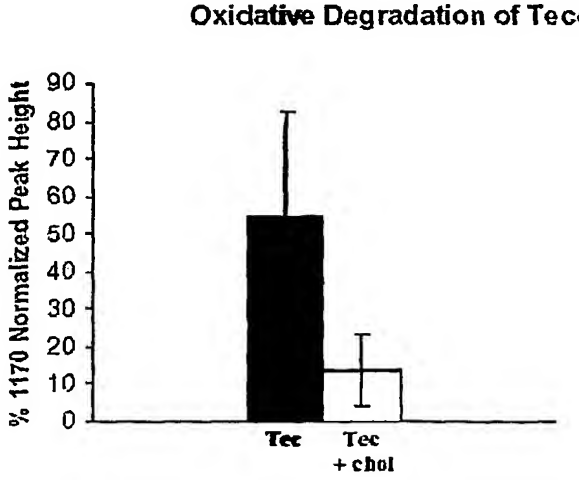


Figure 17A

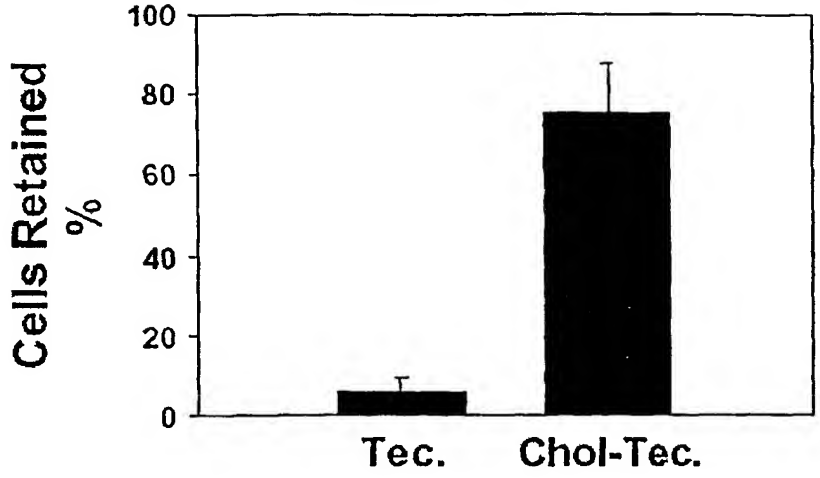


Figure 17B

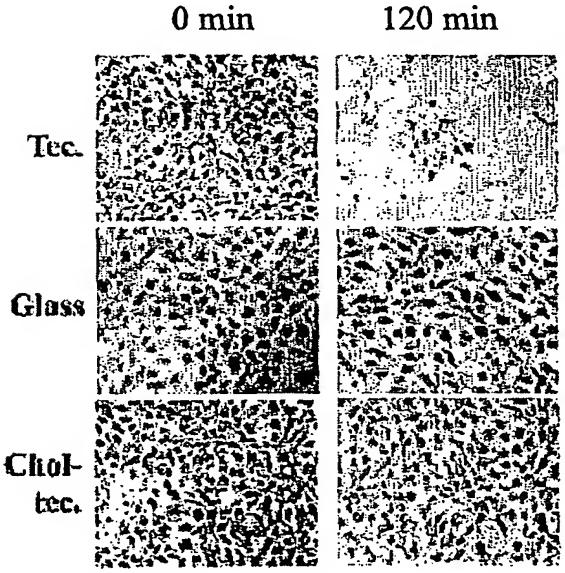


Figure 18A

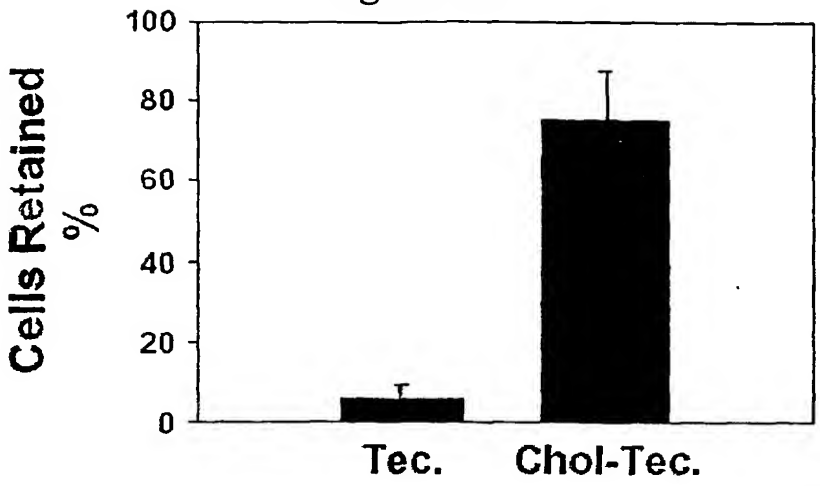
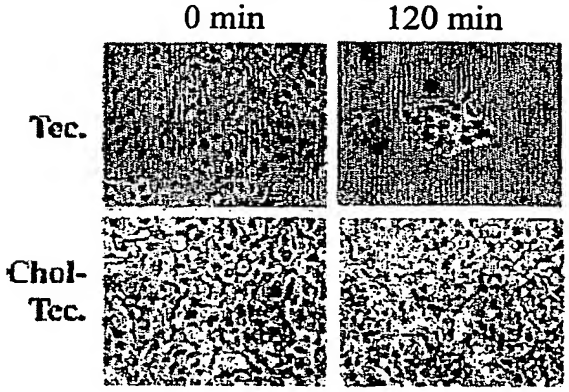


Figure 18B



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